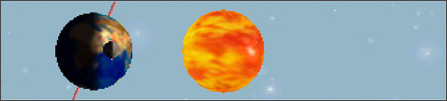
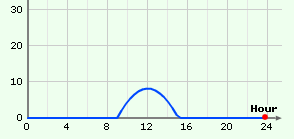
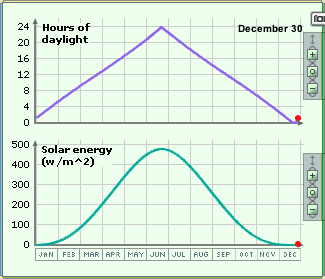
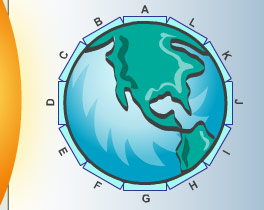
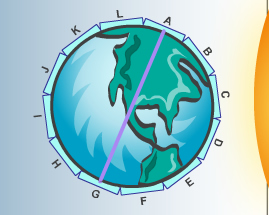
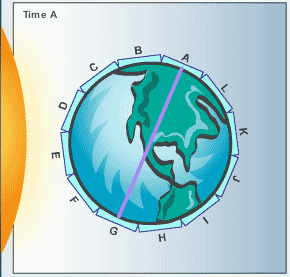
1. The diagram below shows the positions of the Earth, Moon and Sun. What is the date?  
     
   
   *  A. March 21
   *  B. June 21
   *  C. September 23
   *  D. December 21
2. On August 14, what season is it in Sydney, Australia (Latitude 35° South)?
   *  A. summer
   *  B. autumn
   *  C. winter
   *  D. Spring
3. Fill in the blank: In the Northern Hemisphere, June 21 has \_\_\_\_\_\_\_\_\_\_\_\_\_\_ than December 21.
   *  A. longer days and more direct sunlight
   *  B. longer days and less direct sunlight
   *  C. shorter days and more direct sunlight
   *  D. shorter days and less direct sunlight
4. The graph below represents the solar intensity measured over one day in northern Canada. What is the most likely date?  
     
   
   *  A. March 21
   *  B. June 21
   *  C. September 23
   *  D. December 21.

1. In the Northern Hemisphere, why is it warmer in July than January?
   *  A. The maximum solar intensity is greater in July.
   *  B. The days are longer in July.
   *  C. The Northern Hemisphere is tilted towards the Sun in July.
   *  D. All of the above.
2. The year graphs shown below represent hours of daylight and solar energy for what location?  
     
   
   *  A. North Pole (90° N)
   *  B. Arctic Circle (66.5° N)
   *  C. Tropic of Cancer (23.5° N)
   *  D. Equator (0°)
3. On June 21, why is there greater solar energy at the North Pole than the Equator?
   *  A. The North Pole is closer to the Sun than the Equator on that date.
   *  B. The Sun hits the North Pole more directly on that date.
   *  C. Although there is less solar intensity at the North Pole, there are many more hours of daylight.
   *  D. The hole in the ozone layer allows more sunlight to reach the North Pole in the summer.
4. Suppose Earth's axis were tilted at 35° instead of 23.5°. How would this affect the seasons in North America?
   *  A. Winter would be cooler, and summer would be warmer.
   *  B. Both winter and summer would be cooler.
   *  C. Winter would be warmer, and summer would be cooler.
   *  D. Both winter and summer would be warmer.
5. Of the plates listed, which will receive the highest number of hits from the Sun's rays when the Earth is positioned as shown below?  
     
   
   *  A. Plate A
   *  B. Plate C
   *  C. Plate F
   *  D. Plate J
6. What season is it in the northern hemisphere in the diagram below?  
     
   
   *  A. spring
   *  B. summer
   *  C. fall
   *  D. winter
7. Given the picture below, which plate would be experiencing daytime in the winter?  
     
   
   *  A. Plate C
   *  B. Plate E
   *  C. Plate I
   *  D. Plate K